Instructor	Zachary T. Ball zb1@rice.edu	GRB E200C office hours: TBD
Course Assistant	Naomi Duval nduval@rice.edu	DBH 243

Topic Organic Chemistry II. A continuation of Chem 211 and completing a full-year course in organic chemistry, primarily for students interested in the chemistry major or in chemical research.

Prerequisites Chem 211, Chem 251, or completion of a comparable one-semester course in organic chemistry.

Co-enrollment in Chem 232 (introductory organic laboratory module, previously Chem 352) is expected. See the instructor if you do not plan to enroll in Chem 352.

Course Meetings Lectures will be held Tu/Th, 10:50–11:50 in SS 337. Additional small-group problem sessions will be scheduled during the first week of class.

OWL-Space Selected course materials will be available online (owlspace.rice.edu).

Course materials This course will continue with the book used in Chem 211: *Organic Chemistry*, 5th Ed. by Marc Loudon (ISBN 9780981519432).

Access to a good modeling kit can be extremely helpful to your understanding of organic chemistry; they remain useful in an era of ubiquitous computational modeling. The model kits used in Chem 211 will be sufficient. If you plan to study synthetic chemistry in the future, you should also consider a more useful model kit, such as the HGS "5000 Bio-Organic Set," available directly from HGS at http://www.maruzenusa.com/hgs/ (listed as "HGS Bestseller" on the website).

Requirements and Grades

problem sets (8)	50 pts
midterm exams (3)	300 pts
final exam	250 pts
participation, reading quizzes	50 pts
TOTAL	650 pts

Exams and Quizzes There will be three midterm exams. The final exam will be scheduled by the registrar. Brief reading quizzes will be administered at the start of some lecture periods. All exams will be closed book and closed notes. A model kit is the only aid permitted on exams and quizzes.

Exam regrades You have one week from the time that an exam is handed back to request a regrade for an incorrectly graded exam. If you feel there has been an error in grading you should explain your request on a separate piece of paper and staple this to your original and unaltered exam and submit them to the

course instructor. *Only exams written in non-erasable ink may be submitted for a regrade. Exams with any markings, erasures, or other alterations of any kind added after initial grading may not be submitted for a regrade.*

Problem Sets Problem sets will not be rigorously graded for accuracy; credit is primarily based on completion and evidence of thorough effort. Keeping in mind that problem sets are an aid to your understanding of the material, you are welcome to work with classmates. I am aware that solutions to most problems are available through web resources; you will learn the most by avoiding this temptation and by working through problems yourself.

Honor Code The Rice University Honor Code applies to all work conducted in this class. Take-home exams are assumed to be the sole work of the student. Students may work collaboratively on homework assignments.

Disabilities If you have a documented disability that will impact your work in this class, please contact the course instructor to discuss your needs. Additionally, you will need to register with the Disability Support Services Office in the Allen Center.

Chem 320 **Spring 2013**

Tentative Schedule

			Lecture Topic		week
Tue	Jan 8	lecture 1	Ch 14: alkynes		**1**
Thu	Jan 10	lecture 2	Ch 15: resonance&aromat	**PS1 out**	
Tue	Jan 15	lecture 3			**2**
Thu	Jan 17	lecture 4	Ch 16: EAS	**PS1 in; PS2 out**	
Tue	Jan 22	lecture 5			**3**
Thu	Jan 24	lecture 6	Ch 17: allylic, benzylic rxns	**PS2 in, PS3 out**	
		lecture 7			**4**
Thu	Jan 31	lecture 8	Ch 19: C=O addn	**PS3 in, Practice Exam**	
Tue	Feb 5	Exam 1, in-class			**5**
Thu	Feb 7	lecture 9		**PS4 out**	
Tue	Feb 12	lecture 10	Ch 20–21: acids		**6**
Thu	Feb 14	lecture 11		**PS4 in, PS5 out**	
Tue	Feb 19	lecture 12			**7**
Thu	Feb 21	lecture 13		**PS5 in, PS6 out**	
	Feb 25–Mar 1	Spring Break		----------	
Tue	Mar 5	lecture 14	Ch 22: enolates		**8**
Thu	Mar 7	lecture 15		**PS6 in, Practice Exam out**	
Tue	Mar 12	lecture 16		**Exam 2 out**	**9**
Thu	Mar 14	lecture 17, Exam 2 (take-home) due			
Tue	Mar 19	Lecture 18	Ch 23: amines	**PS7 out**	**10**
Thu	Mar 21	lecture 19			
Tue	Mar 26	lecture 20		**PS7 in, PS8 out**	**11**
Thu	Mar 28	Midterm recess			
Tue	Apr 2	lecture 21	Ch 27: pericyclic rxns		**12**
Thu	Apr 4	lecture 22		**PS8 in, Practice Exam out**	
Tue	Apr 9	Lecture 23			**13**
Thu	Apr 11	Exam 3		**PS9 out**	
Tue	Apr 16	lecture 24	Ch 26: amino acids & peptides		**14**
Thu	Apr 18	Lecture 25		**PS9 in, Final Practice out**	
	Apr 24–May 1	Final Exams			